

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Hong Zhang and Andrew T. Watt : Art Unit: Not yet assigned
Serial No.: Not yet assigned : Examiner: Not Yet Assigned
Filed: Concurrently herewith :
For: ANTISENSE MODULATION OF :
CASPASE 7 EXPRESSION

INFORMATION DISCLOSURE STATEMENT

EXPRESS MAIL LABEL NO: EV 146602702 US
DATE OF DEPOSIT: September 16, 2003

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

S I R :

Pursuant to 37 C.F.R. §§ 1.97 and 1.98 and to the duty of disclosure set forth in 37 C.F.R. § 1.56, the Examiner in charge of the above-identified application is requested to consider and make of record the references listed on the PTO-1449 form submitted herewith.

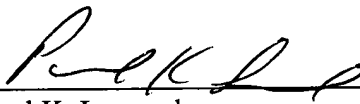
This submission is not intended to constitute an admission that such information is "prior art" as to the claimed invention.

Copies of the references cited on the attached PTO-1449 form can be found in the parent case, U.S. Serial No. 09/659,860, filed September 11, 2000.

In accordance with 37 C.F.R. § 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made.

No first Official Action has yet been received and it is presumed that none has yet been mailed. No fee or certification is required. 37 C.F.R. § 1.97(b).

Respectfully submitted,



Paul K. Legaard
Reg No.: 38,534

Enclosures:
PTO-1449

Dated: September 16, 2003

Cozen O'Connor
1900 Market Street
Philadelphia, PA 19103
Tel: 215-665-2000

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| Form PTO-1449 Modified | | Docket No. _____ ISIS0054-100/RTS-0201.C1 | Serial No. not yet assigned |
| List of Patents and Publications Cited by Application (Use several sheets if necessary) | | Applicant Hong Zhang et al. | |
| | | Filing Date herewith | Group |
| U.S. Department of Commerce Patent and Trademark Office | | | |
| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) | | | |
| | AA | Afford et al., <i>Apoptosis</i> , Mol. Pathol., 2000, 53:55-63 | |
| | AB | Behrendorf et al., The endothelial monocyte-activating polypeptide II (EMAP II) is a substrate for caspase-7, <i>FEBS Lett.</i> , 2000, 466:143-147 | |
| | AC | Bowen et al., Synthesis of procaspases-3 and -7 during apoptosis in prostate cancer cells, <i>Cell Death Differ.</i> , 1999, 6:394-401 | |
| | AD | Bratton et al., Protein complexes activate distinct caspase cascades in death receptor and stress-induced apoptosis, <i>Exp. Cell. Res.</i> , 2000, 256:27-33 | |
| | AE | Bullrich et al., Chromosomal mapping of cell death proteases CPP32, MCH2, and MCH3, <i>Genomics</i> , 1996, 36:362-365 | |
| | AF | Deveraux et al., IAPs block apoptotic events induced by caspase-8 and cytochrome c by direct inhibition of distinct caspases, <i>Embo J.</i> , 1998, 17:2215-2223 | |
| | AG | Dong et al., Serine protease inhibitors suppress cytochrome c-mediated caspase-9 activation and apoptosis during hypoxia-reoxygenation [In Process Citation], <i>Biochem. J.</i> , 2000, 347 Pt 3:669-677 | |
| | AH | Duan et al., ICE-LAP3, a novel mammalian homologue of the <i>Caenorhabditis elegans</i> cell death protein Ced-3 is activated during Fas- and tumor necrosis factor-induced apoptosis, <i>J. Biol. Chem.</i> , 1996, 271:1621-1625 | |
| | AI | Fernandes-Alnemri et al., Mch3, a novel human apoptotic cysteine protease highly related to CPP32, <i>Cancer Res.</i> , 1995, 55:6045-6052 | |
| | AJ | Garcia-Calvo et al., Purification and catalytic properties of human caspase family members, <i>Cell. Death Differ.</i> , 1999, 6:362-369 | |
| | AK | Germain et al., Cleavage of automodified poly(ADP-ribose) polymerase during apoptosis. Evidence for involvement of caspase-7, <i>J. Biol. Chem.</i> , 1999, 274:28379-28384 | |
| EXAMINER | | DATE CONSIDERED | |

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| Form PTO-1449 Modified | | Docket No. ISIS0054-100/RTS-0201.C1 | Serial No. not yet assigned |
| List of Patents and Publications Cited by Application (Use several sheets if necessary) | | Applicant Hong Zhang et al. | |
| | | Filing Date herewith | Group |
| U.S. Department of Commerce Patent and Trademark Office | | | |
| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) | | | |
| | AL | Juan et al., Identification and mapping of Casp7, a cysteine protease resembling CPP32 beta, interleukin-1 beta converting enzyme, and CED-3, Genomics, 1997, 40:86-93 | |
| | AM | King et al., Processing/activation of caspases, -3 and -7 and -8 but not caspase-2, in the induction of apoptosis in B-chronic lymphocytic leukemia cells, Leukemia, 1998, 12:1553-1560 | |
| | AN | Lippke et al., Identification and characterization of CPP32/Mch2 homolog 1, a novel cysteine protease similar to CPP32, J. Biol. Chem., 1996, 271:1825-1828 | |
| | AO | Marcelli et al., Caspase-7 is activated during lovastatin-induced apoptosis of the prostate cancer cell line LNCaP, Cancer Res., 1998, 58:76-83 | |
| | AP | Marcelli et al., Signaling pathway activated during apoptosis of the prostate cancer cell line LNCaP: overexpression of caspase-7 as a new gene therapy strategy for prostate cancer, Cancer Res., 1999, 59:382-390 | |
| | AQ | Thornberry, The caspase family of cysteine proteases, Br. Med. Bull., 1997, 53:478-490 | |
| EXAMINER | | DATE CONSIDERED | |

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| Form PTO-1449 Modified | Docket No. ISIS0054-100/RTS-0201.C1 | Serial No. |
| List of Patents and Publications Cited by Application (Use several sheets if necessary) | Applicant Hong Zhang et al. | |
| U.S. Department of Commerce Patent and Trademark Office | Filing Date | Group |

U.S. PATENT DOCUMENTS

| Examiner's Initial | | Document No. | Date | Name | Class | Subclass |
|-----------------------|----|--------------|------------|---------------|-------|----------|
| | AA | 6,004,933 | 12/21/1999 | Spruce et al. | 514 | 17 |
| | AB | | | | | |
| | AC | | | | | |
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| | AN | | | | | |

FOREIGN PATENT DOCUMENTS

| Examiner's Initial | | Document No. | Date | Country | Translation YES NO | |
|-----------------------|----|--------------|------------|---------|-----------------------|--|
| | AO | WO 00/02858 | 01/20/2000 | PCT | | |
| | AP | WO 00/21523 | 04/20/2000 | PCT | | |
| | AQ | WO 99/66945 | 12/29/1999 | PCT | | |
| | AR | WO 99/66930 | 12/29/1999 | PCT | | |
| | AS | WO 00/10979 | 03/02/2000 | PCT | | |
| | AT | WO 97/16552 | 05/09/1997 | PCT | | |
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